

FIGURE 2

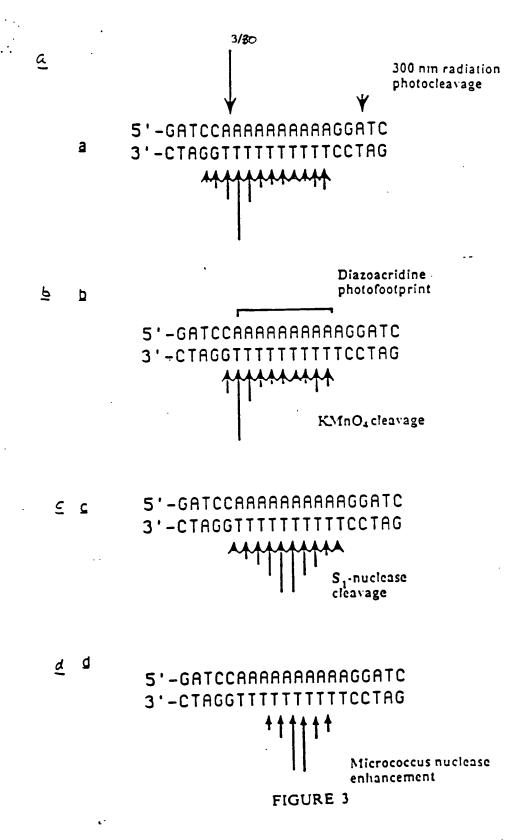


FIGURE 4

FIGURE 5

1) SOCI,DMF(cal.) rellus

1) "H,N[CM],CO,CH,FI,MCH,CI, at 0°C

11) PhoH4-NO,-Ph-CONH[CM],NH, at 120°C

1v) DMF/aq. NaOH

v) DMF/CH,CI,PIPOH/DCC

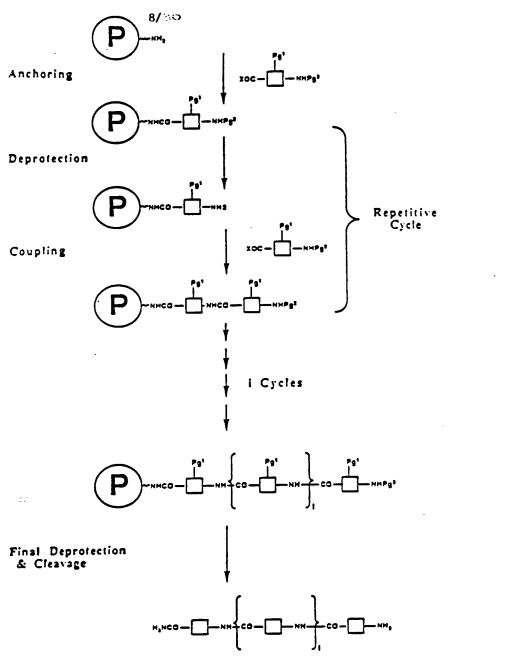


FIGURE 8

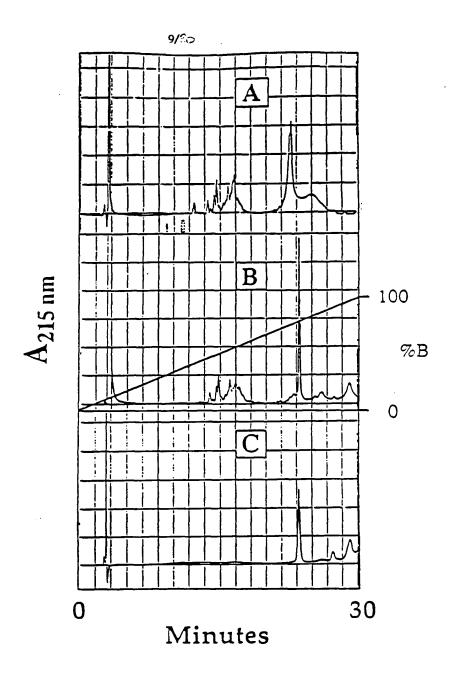


FIGURE 9

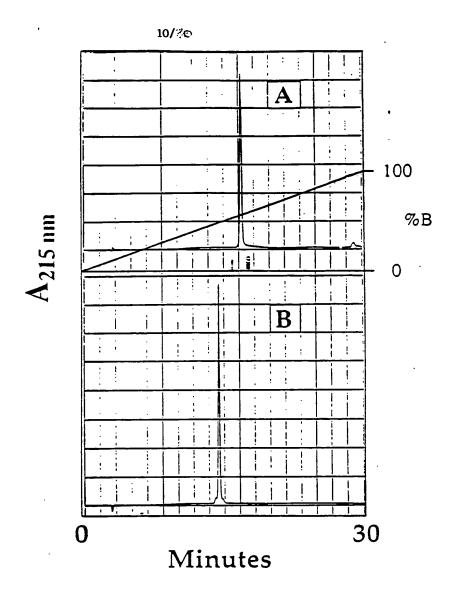


FIGURE 10

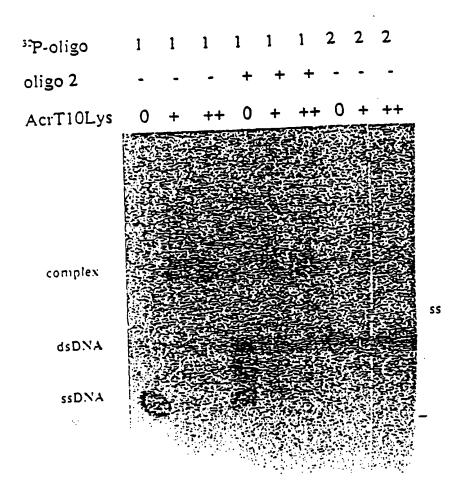
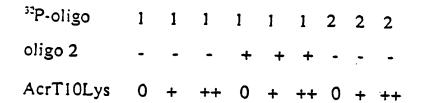


FIGURE 11 (a)



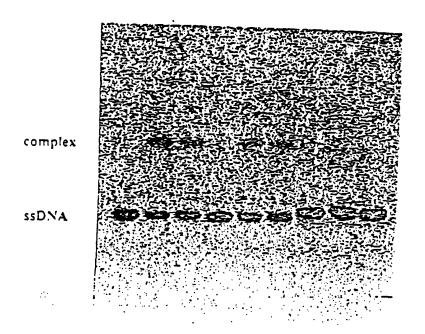


FIGURE 11 (b)

AcrT10Ly's

FIGURE 12(a)

AcrTIOLys

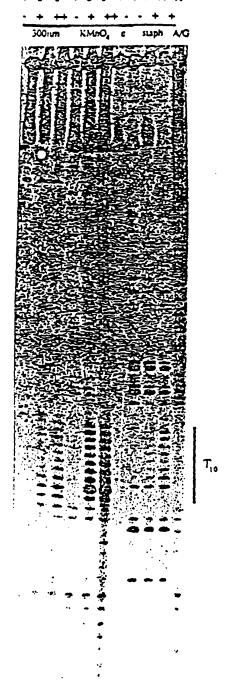


FIGURE 12 (8)

15/ 30 S₁-nuclease 0.1 1 10 0.1 1 10 AcrT10Lys . . . + + +



FIGURE 13

Alterations of A,B, C and D

aminoethyl glycine

FIGURE 16

R1 smine acid sidechair

R²= methyl, ethyl ets.

Synthesis of the aminopropyl analogue of the thymine monomer

FIGURE 18 (a)

Synthesis of the propionyl analogue of the thymine monomer

FIGURE 18 (b)

Synthesis of the aminoethyl-ß-alanine analogue of the thymine monomer

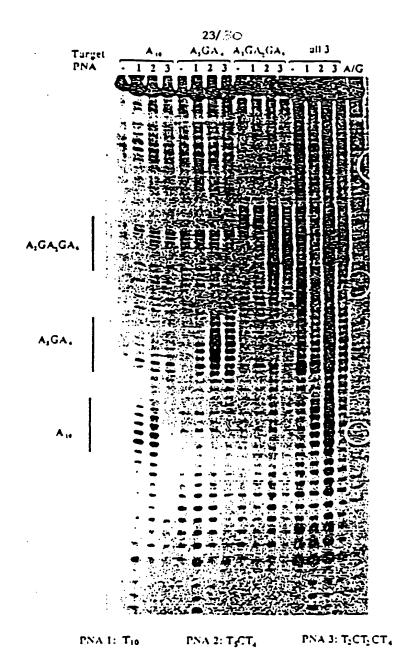


FIGURE 20

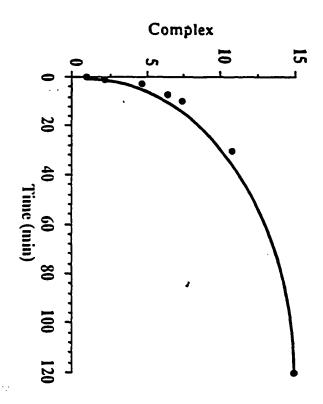


FIGURE 21

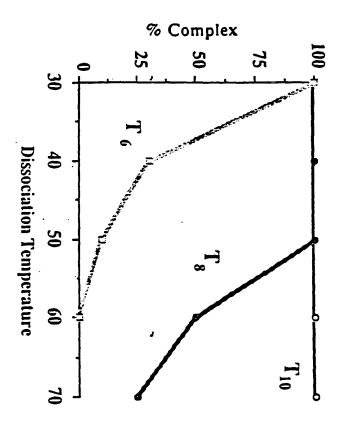
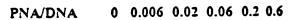
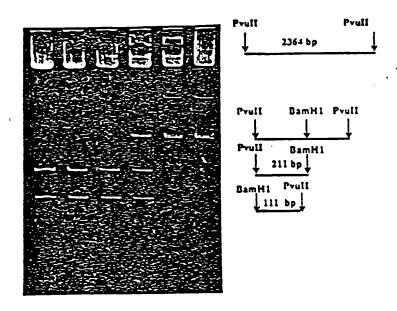


FIGURE 22

Inhibition of Restriction Enzyme Cleavage by PNA





PNA Target

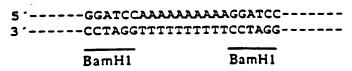


FIGURE 23

Binding of 125 I-Tyr-PNA-Tioto dA to

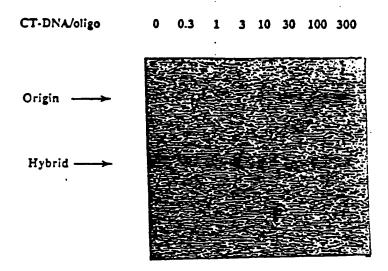


FIGURE 24

Figure 25

30/30

Test of the losyl-group as N-protecting group in PNA-synthesis

Compound

compound 1 in

50 % TFA: 50 % Methylene chlride , 5 h, π .

compound 1 in

100 % HF, 0 °C, 1 h

Quantitative de-benzylation

Quantitative de-benzylation and de-sulfonylation